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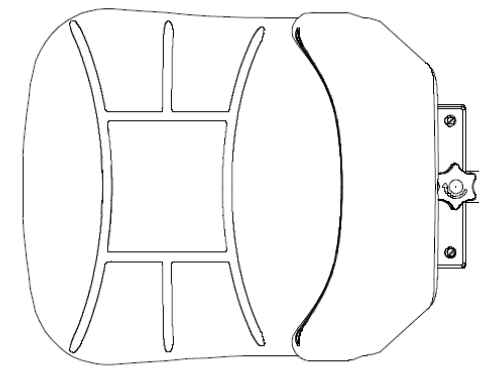
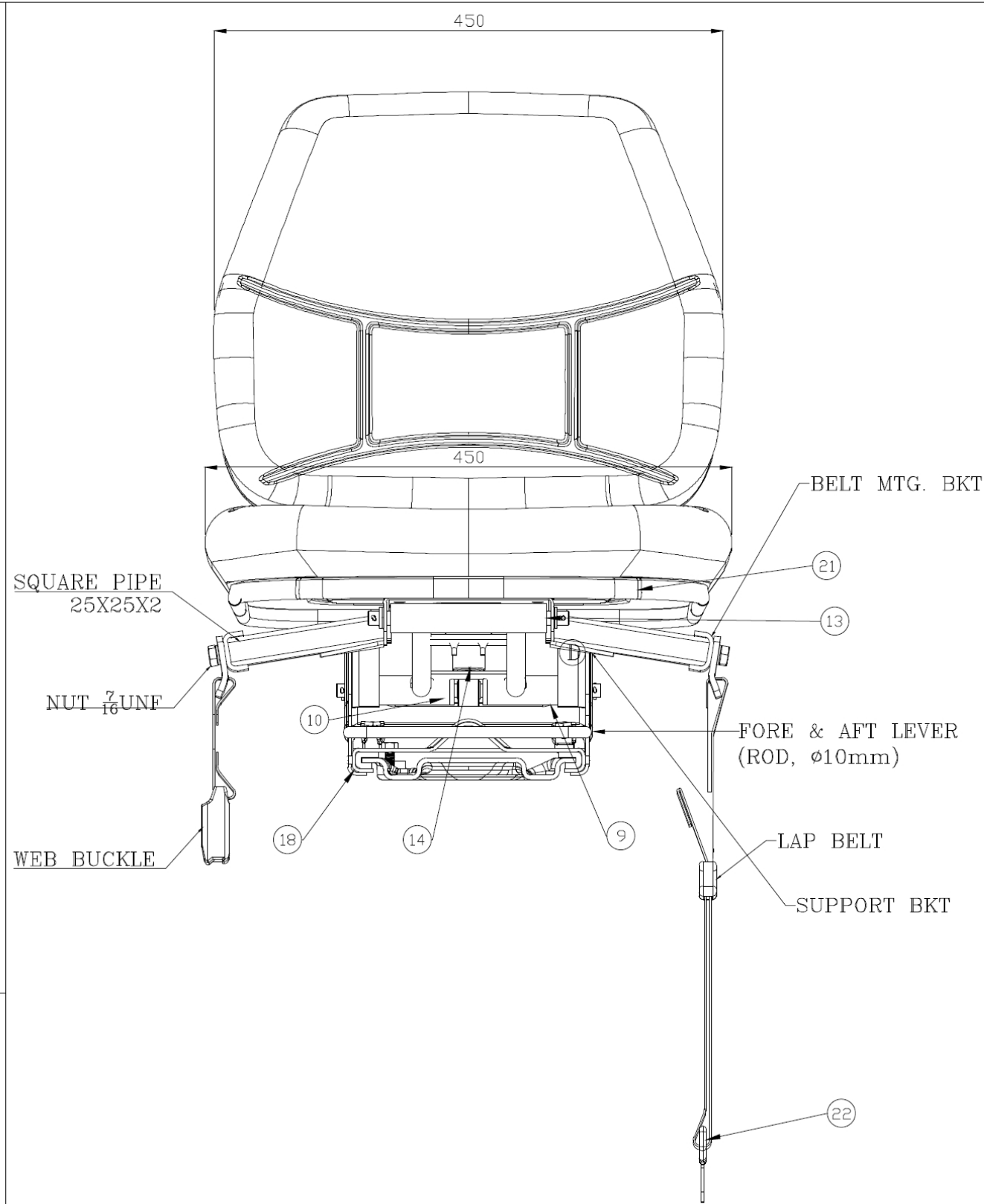
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BILL OF MATERIAL				
S.NO.	PART DESCRIPTION	QTY.	DRG. NO.	M&M DRG. NO.
1	MOUNTING BASE	1	DSM-M-STAR-01	
2	SLIDE BASE ASSEMBLY	1	DSM-M-STAR-02	
3	FLOATING FRAME ASSEMBLY	1	DSM-M-STAR-03A	
4	LINK ASSEMBLY	1	DSM-M-STAR-04	
5	BASE BACK ASSEMBLY	1	DSM-M-STAR-05	
6	<i>SEAT PAN WITH CUSHION ASSEMBLY</i>	1	DSM-M-STAR-08	007544776C91
7	<i>BACK PAN WITH CUSHION ASSEMBLY</i>	1	DSM-M-STAR-07	007544779C91
8	LEVER ARM	1	DSM-M-STAR-08	
9	<i>LEVER SPRING</i>	2	M-STAR-BOP-01	007544769C1
10	<i>SHOCK ABSORBER</i>	1	M-STAR-BOP-02	007544771C1
11	<i>SPRING</i>	2	DSM-BOP-01	007600352R1
12	<i>SQUARE BALL (SUSPENSION)</i>	2	M-STAR-BOP-03	007545291C1
13	<i>NYLON BUSH (LINK ASSEMBLY)</i>	6	DSM-BOP-12	007600354R1
14	<i>LOWER RUBBER STOPPER</i>	1	M-STAR-BOP-04	007544772C1
15	<i>UPPER RUBBER STOPPER</i>	2	DSM-BOP-11	007600356R1
16	<i>WEIGHT ADJUSTMENT KNOB</i>	1	M-STAR-BOP-05	007544773C1
17	<i>HEIGHT ADJUSTMENT KNOB</i>	2	M-STAR-BOP-06	007544775C1
18	<i>SLIDER GUIDE BUSH</i>	4	M-STAR-BOP-07	007544776C1
19	<i>BENDING</i>	1	DSM-04-BOP-001	
20	<i>BEADING LOCK</i>	2	DSM-04-BOP-002	
21	<i>REXINE HOLDING CLIP</i>	18	DSM-05-BOP-003	
22	<i>SEAT BELT ASSY LAP TYPE</i>	1	M-STAR-CABIN-BOP-01	007544888C91

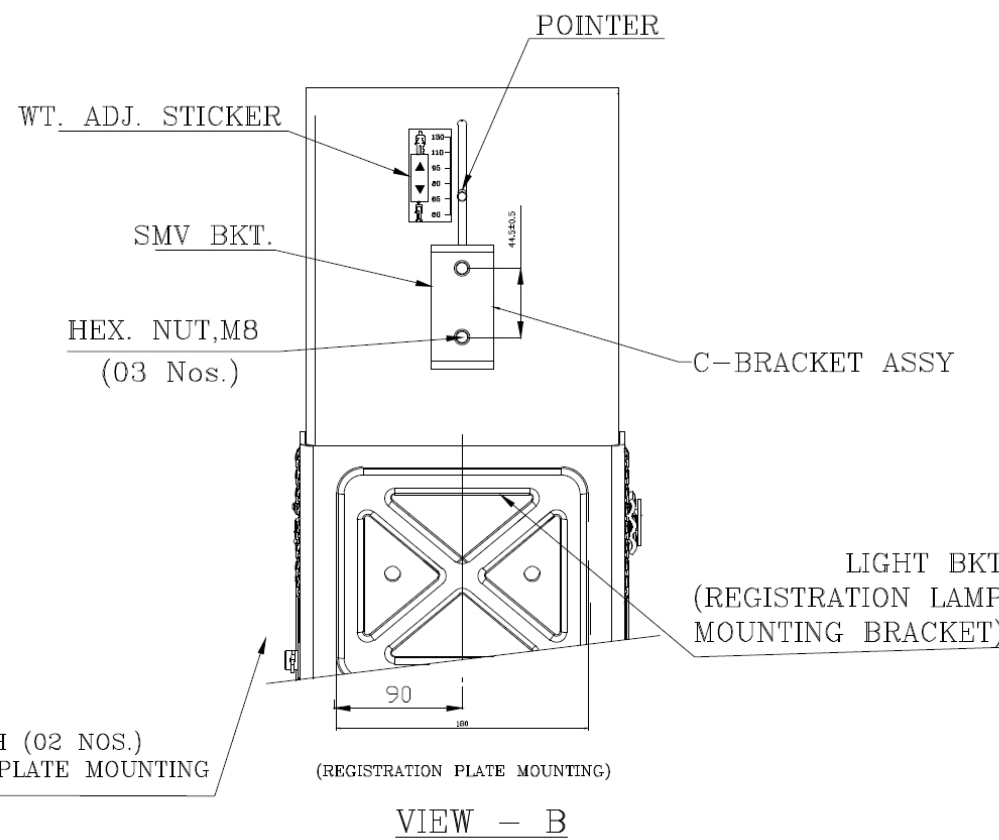
NOTE:- REPLACEABLE PARTS IN BOM LIST ARE SHOWN IN ITALIC & UNDERLINED.

- NOTES :-
- GENERAL TOL. ON FOAM : $\pm 10\text{mm}$
 - GENERAL TOL. AS PER ISO-2768-1:1999
 - SURFACE TREATMENT OF METAL PARTS :
 - METAL PARTS TO BE POWDER COATED WITH BLACK COLOR (SEMI GLOSSY) PURE POLYESTER POWDER AS PER M&M STANDARD (REFER PS-622)
 - PINS/HARDWARES/SPRINGS : ZINC FLAKE COATING (MAGNI 565), NO RUST ALLOWED WITHIN 500 HOURS.
 - SIP LOCATION AS PER IS: 11113-1999
 - SEAT CUSHION HARDNESS : 20 ± 2 Kgf, BACK CUSHION HARDNESS : 15 ± 2 Kgf
 - SEAT BASE CUSHION WIDTH - 450 ± 10 mm, & LENGTH - 410 ± 10 mm
 - SEAT BACK CUSHION WIDTH - 450 ± 10 mm & LENGTH - 374 ± 10 mm
 - SEAT CUSHIONS MIN. THICKNESS : 45mm, BACK CUSHION MIN. THICKNESS : 60mm
 - SEAT CUSHION & BACKREST CUSHION PROFILE AS PER 3D SURFACE GIVEN BY M&M
 - COLOR OF REXINE : BLACK, THICKNESS OF REXINE: $1.1\pm 0.1\text{mm}$, MATERIAL OF REXINE : PVC, GLOSS LEVEL : 540.5
 - 18 Nos. REXINE HOLDING CLIPS PUT ONLY ON SEAT BASE CUSHION ASSY.
 - MINIMUM BEADING HOLDING FORCE IS 16Kgf
 - 02 No. OF BEADING LOCK PUT ONLY ON SEAT BASE CUSHION ASSY.
 - BEADING CRIMPING : BEADING ON CUSHIONS TO BE CRIMPED BY CRIMPING TOOL.
 - SEAT TO BE SUPPLIED WITH LOW DENSITY POLYETHYLENE SEAT COVER HAVING THICKNESS RANGE 40 TO 60 MICRONS, TENSILE STRENGTH = 45 KG/CM² MIN., ELONGATION AT BREAK = 35 % & SUFFICIENT NO. OF HOLES TO BE PROVIDED FOR PROPER VENTILATION.
 - SEAT POSITION SHOWN IN THE DRG. IS WHEN THE SEAT IS LOADED (MID POSITION OF SUSPENSION STROKE) AND SEAT IS AT ITS MID POSITION OF FORE & AFT TRAVEL AND MID OF HEIGHT ADJUSTMENT
 - SUSPENSION STROKE = 80 ± 10 mm
 - SUSPENSION STROKE OF 80 mm IS TO BE MEASURED EITHER IN DYNAMIC CONDITION OR WITH A STATIC WEIGHT OF 90 Kg MIN. ON SEAT BASE CUSHION
 - HEIGHT ADJUSTMENT STROKE = 6045mm
FORE & AFT ADJUSTMENT :-
 - FORE & AFT STROKE : 150mm (IN STEPS OF 15mm EACH)
 - SLIDER MECHANISM LATERAL PLAY 1.0 mm MAX. ON BOTH SIDES
 - FORE AND AFT RELEASE LEVER OPERATING FORCE MAX. 6 Kgf
 - PULL FORCE FOR SLIDER : SLIDING FORCE FOR MOVEMENT 12Kgf MAX. WHEN SEAT IS UNLOADED & 20Kgf MAX. WHEN SEAT IS LOADED WITH 65Kg.
 - WEIGHT ADJ. CALIBRATION :-
 - SEAT LOADED WITH 50 Kg STATIC WEIGHT AND WITH THE SPRING TENSION KEPT TO THE MINIMUM INDICATIVE ARROWS HAVE BEEN MATCHED AS PER STD. CALIBRATION METHODS
 - SEAT LOADED WITH 130 Kg AND SPRING TENSION ADJUSTED TO MATCH INDICATIVE ARROWS
 - SEAT LOADED WITH 75 Kg AND SPRING TENSION ADJUSTED TO MATCH INDICATIVE ARROWS BEFORE DESPATCH
 - WEIGHT ADJUSTMENT KNOB OPERATING TORQUE SHOULD BE MAX. 12Nmm
 - LOGO DEPTH IS 6mm
 - SUPPLY CONDITION:- TWO NO. SEATS DULY PACKED IN CORRUGATED BOX
 - SEAT TESTING AS PER SOR
 - SEAT BELT ASSY MUST CONFORMS TO SAE J 386,ISO-3776-1 & ISO-3776-3.
 - SEAT BELT ANCHORAGE TEST AS PER SAE J 2194, EEC 776/115 & ISO-3776-2
 - CO2 WELDING AS PER M&M STD (REFER PS-608)
 - ALL SHARP EDGES AND CORNERS TO BE REMOVED
 - ALL HARDWARES SHOULD BE COATED FOR CORROSION RESISTANCE AS PER IS:1367



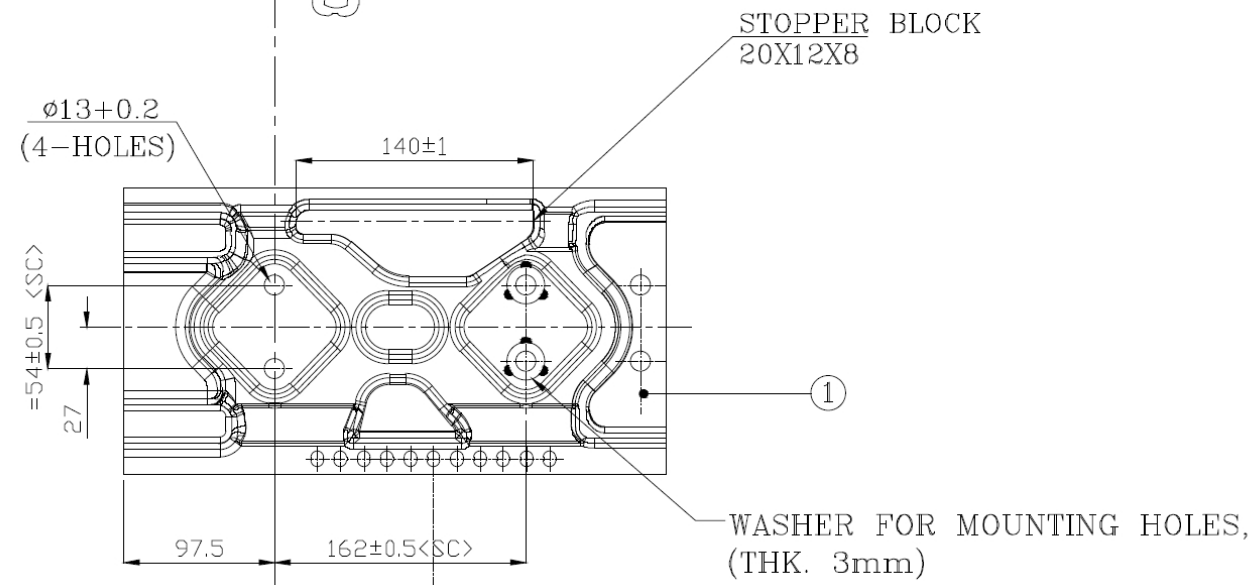
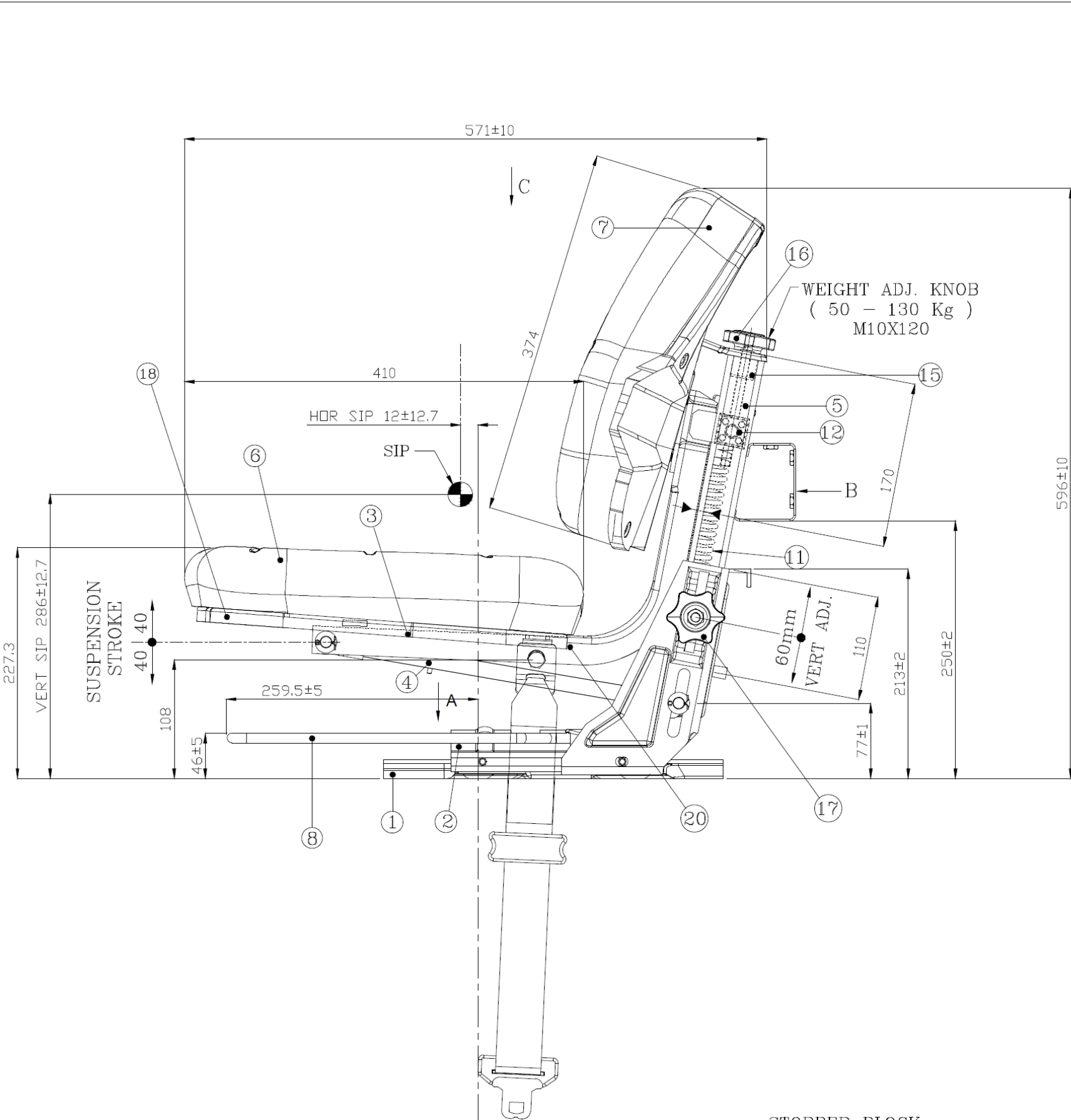
VIEW - C
SCALE 1:5

1/4"UNC BUSH (02 NOS.)
FOR REGISTRATION PLATE MOUNTING



VIEW - B

UNSPECIFIED TOLERANCES AS PER ISO-2768-1:1999									
DIMENSIONS									
LINEAR	OVER	0.5	3	6	30	120	400	1000	2000
IN MM	UPTO	3	6	30	120	400	1000	2000	4000
f FINE	(0.000)	± 0.05	± 0.05	± 0.1	± 0.15	± 0.2	± 0.3	± 0.5	-
m MEDIUM	(0.000)	± 0.1	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
c COURSE	(0.000)	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3	± 4
v VERY COURSE	(0.000)	± 0.5	± 1	± 1.5	± 2.5	± 4	± 6	± 8	-
LENGTH OF SHORTER SIDE OF THE ANGLE IN MM									
ANGULAR	OVER	-	10	50	120	400	-	-	-
IN DEG.	UPTO	10	50	120	400	-	-	-	-
f FINE	(0.000)	$\pm 1^\circ$	$\pm 0',30''$	$\pm 0',20''$	$\pm 0',10''$	$\pm 0',5''$	-	-	-
m MEDIUM	(0.000)	$\pm 1^\circ$	$\pm 0',30''$	$\pm 0',20''$	$\pm 0',10''$	$\pm 0',5''$	-	-	-
c COURSE	(0.000)	$\pm 1^\circ,30''$	$\pm 1^\circ$	$\pm 0',30''$	$\pm 0',15''$	$\pm 0',10''$	-	-	-
v VERY COURSE	(0.000)	$\pm 3^\circ$	$\pm 2^\circ$	$\pm 1^\circ$	$\pm 0',30''$	$\pm 0',20''$	-	-	-



VIEW - A
(MOUNTING DETAILS)

NOTE:- REF DRAWING PART NO 007544879C91
(SEAT BELT ASSY. AND SEAT BELT MTG. ADDED IN DRAWING
LIGHT BKT, C-BKT AND REG PLATE MTG BUSH DELETED AS
COMPARED TO REF DRAWING)

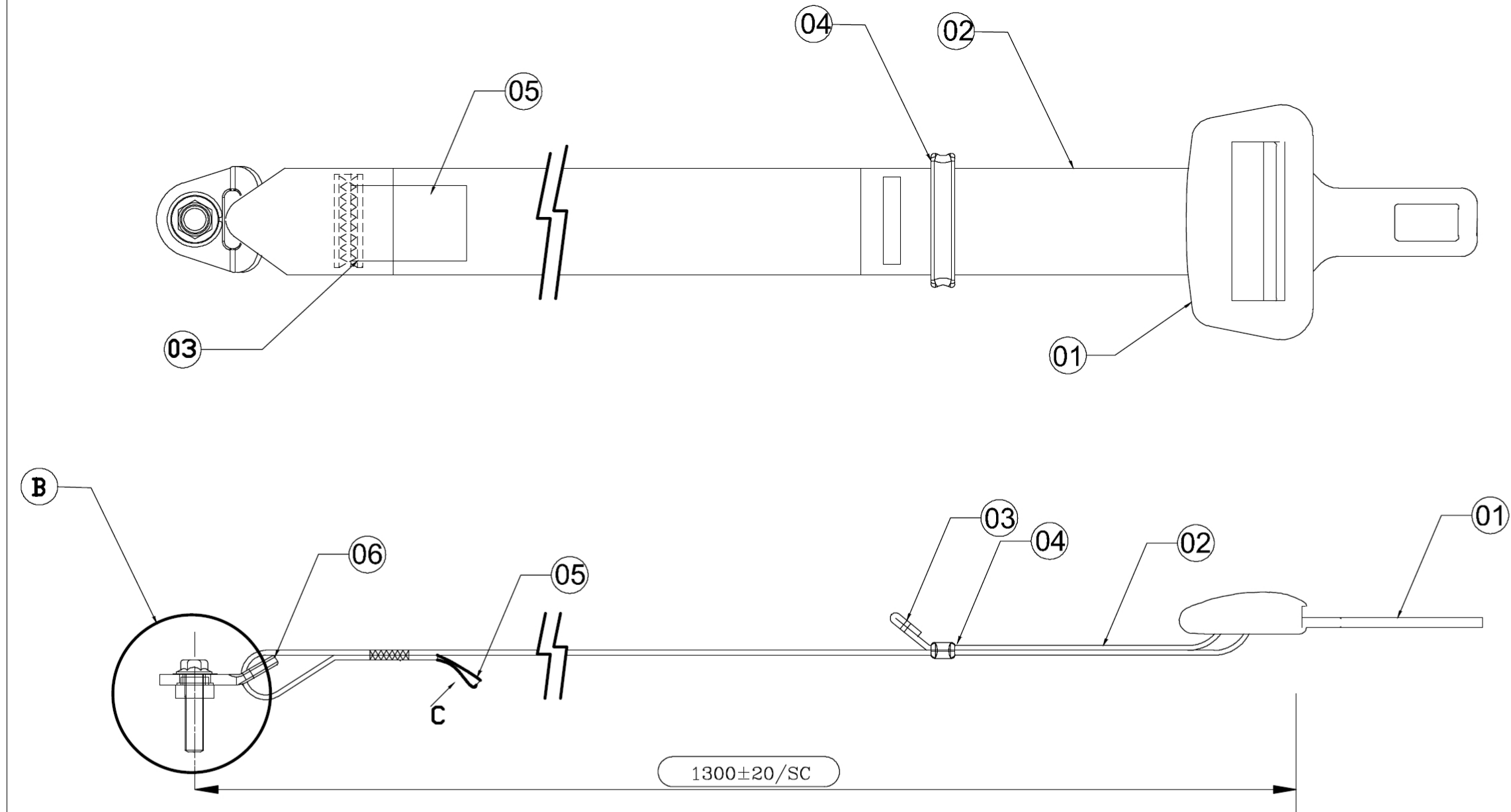
REV. NO. AND DATE	01 / 21.06.2024	CUSTOMER	MAHINDRA & MAHINDRA LTD.
ALL DIMENSIONS ARE IN MM REMOVE SHARP CORNERS AND BURRS TOLERANCE UNLESS STATED AS PER IS 2102 MEDIUM CLASS		WEIGHT	22±1kg
POLAR AUTO & ENGG INDUSTRIES PVT.LTD		SHEET	1 OF 2
132 DLF INDUSTRIAL ESTATE, FARIDABAD		QTY.	01
SCALE NTS		CUSTOMER'S NAME	MAHINDRA & MAHINDRA LTD.
PART NAME - SEAT ASSEMBLY		MODEL	M-STAR SEAT
PART NO. - 007666351U01			

<SC> :SIGNIFICANT CHARACTERISTICS ▽:CRITICAL CHARACTERISTICS

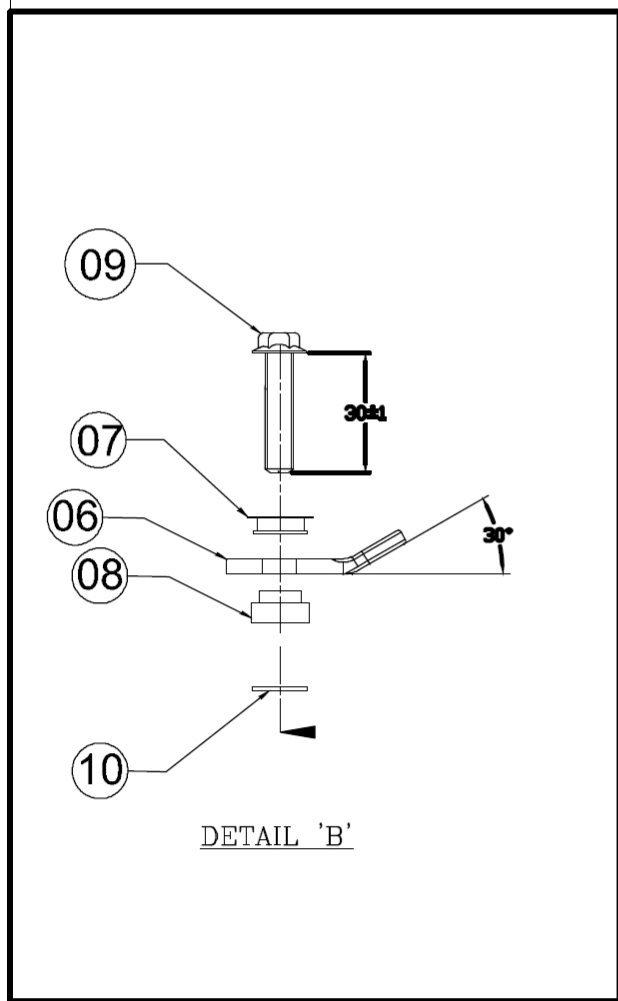
BREAK SHARP CORNERS MAY BE EITHER A CHAMFER OR A RADIUS FROM 0.2 mm MIN. TO 1.0 mm MAX.				MAHINDRA & MAHINDRA LIMITED TRACTOR DIVISION KANDIVLI(EAST), MUMBAI 400 101, INDIA.					
				E.R. / PROC.REQ.NO. : ER18C0005188		PART NO. : 007544879C91			
				PART NAME : SEAT ASSEMBLY (MSTAR CABIN)					
				MATERIAL : REFER BOM		HEAT TREATMENT : ---			
				NAME		SIGN	DATE	FIRST USED TRCR. MODEL	
				CAD ENGG.		MIS		29/08/17	MSTAR ADD ON
PART OF THIS DRAWING / DOCUMENT SHOULD NOT BE REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION OF M & M LTD.				DESIGNER		MIS	29/08/17	SCALE NTS	
				CHECKER		SS	29/08/17	SHEET 1 OF 2	
COMPUTER GENERATED DRAWING				APPR.BY		BP	29/08/17	UNIT QTY. : 1	
							29/08/17	WT. 22 Kg.	
IF IN DOUBT, ASK		DO NOT SCALE		DRG SIZE : A1		ALL DIMENSIONS ARE IN mm.		CHECK DRG WITH LATEST CHANGE No	

ER2310000058	AE	F3	ZINC PLATING CHANGED TO ZINC FLAKE PLATING (MAGNI 565) WITH SILVER GRAY	PRP	NVC	DS	22-07-2024
ER18C0005188	AD		C-BKT ASSY., LIGHT BKT & BUSH ADDED IN BASE BACK ASSY.	MIS	MIS	SS	19-08-2017
	AC		IN NOTE NO. 26 STANDARD - ISO3776-1 & ISO-3776-3 ADDED. IN NOTE NO. 27 STANDARD - ISO3776-2 ADDED.	MIS	MIS	SS	29-05-2015
	AB		STOPPER BLOCK ADDED IN MOUNTING BASE. SLOT PITCH CHANGED FROM 15 TO 13 AND SLIDING STROKE CHANGED FROM 150 TO 130. DIM. 140 ADDED AND DIM. 159 DELETED. NOTES & BOM REVISED	LJ	LJ	SS	28-11-2014
	AA		SEAT BELT ASSY., AIR TYPE REPLACED WITH SEAT BELT ASSY.-LAP TYPE. LIST OF REPLACEABLE PARTS TABLE DELETED AND NOTE ADDED. NOTES REVISED.	LJ	LJ	SS	13-06-2014
ER.ND.	LET	LOC	REVISIONS	DSNR	CKR	APPR.	DATE

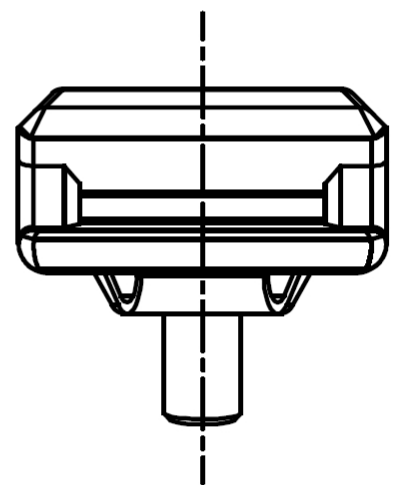
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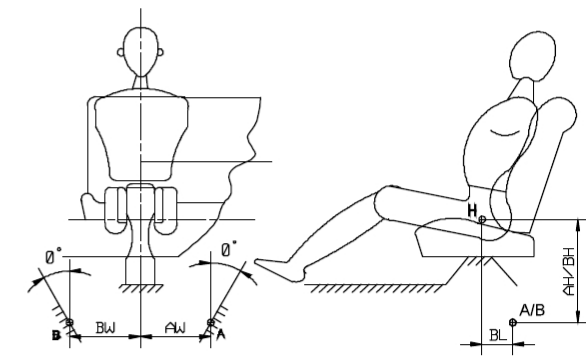
LAP BELT ASSY. (QTY. - 01 NO. PER VEHICLE)



WEB BUCKLE ASSY. (QTY. - 01 NO. PER VEHICLE)



ANNEXURE - III



DRIVER SEAT BELT ANCHORAGE POINTS

POINT		X(T/L)	Y(B/L)	Z(W/L)
INNER ANCHORAGE (R/L)	A	-168	215	577
INNER ANCHORAGE (L/R)	B	-168	-215	577
SHOULDER ANCHORAGE	C	NA	NA	NA
RETRACTOR ANCHORAGE	D	NA	NA	NA
H POINT		-250	0	705

NOTES :-

- SEAT BELT ASSY. SHALL CONFIRM TO ISO-3776-3 & SAE J-386
- BOLT THREAD 7/16" UNF HEX. HEAD A/F WIDTH IS 14 MM. LENTH OF BOLT THREAD IS SHOWN IN DRAWING.
- COLOR OF WEBBING, TONGUE ADJ ASSY, SLIDER &, BUCKLE SHALL BE BLACK.
- TORQUE RANGE OF BOLT 40-50 Nm
- WEBBING ELONGATION 10±1 25%.
- PART MUST BE FREE FROM BURRS AND SHARP EDGES.
- BARCODE SHOWN IS FOR AUTO IV INTERNAL PURPOSE ONLY.

1		619463797 A	WEB BUCKLING HEAD, K12CEUROD	BLACK	—	11
1	1	IND113090A	LOCK WASHER	Fe//Zn8//A CLEAR	SUS 301	10
1	1	IND1992S3B	SCREW STANDARD, 3MM	Fe//Zn8//A CLEAR	SAE 10B21	9
1	1	618209200A	SPACER, STEPPED	Fe//Zn8//A CLEAR	EN 1A	8
1	1	628803700 A	ANTI RATTLE BUSH WHITE	NATURAL	PDM	7
1	1	628781400A	ANCHORPLATE,SINGLE 30°	Fe//Zn8//A CLEAR	ST42/5APH 440	6
	YES	618051884A	HOMOLOGATION DATA LABEL	WHITE	NYLON	5
	1	623677001A	SLIDER	BLACK	HOPE	4
YES	YES	617522801A	THREAD SEWING BLACK	BLACK	POLYESTER	3
YES	YES	55045244C B	WEBBING BLACK	BLACK	POLYESTER	2
	1	617981001A	TONGUE, ADJUSTABLE ASSEMBLY BLACK	BLACK	—	1
QTY	QTY	PART NO	DESCRIPTION	FINISH	MATERIAL	SL N

WEB BUCKLE ASSY	WEB BUCKLE ASSY
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POLAR AUTO				
M/M KIT PART NUMBER	AUTO IV KIT PART NUMBER	AUTO IV PART NUMBER	DESCRIPTION	QTY
00754488C 91	63950290 DA	639502400A	2PT STATIC BELT ASSY	1
		639502700A	WEB BUCKLE ASSY	1

NOTE : GEOMETRICAL TOLERANCE STANDARD FOR KIT SEAT BELT ASSY IS ISO 1101.

REV.NO. AND DATE	01 / 21.06.2024	PART NO.	CUSTOMER	007544888C91
		POLAR	DSM-M-STAR-CABIN	
ALL DIMENSIONS ARE IN MM. REMOVE SHARP CORNERS AND BURRS TOLERANCE UNLESS STATED AS PER IS 2102 MEDIUM CLASS				
POLAR AUTO & ENGG INDUSTRIES PVT.LTD			WEIGHT	24±1 Kg
132 DLF INDUSTRIAL ESTATE, FARIDABAD			SHEET	2 OF 2
			QTY.	1
SCALE	NAME	DATE	PART NAME -	
NTS	DRN	VKAS	18.06.2024	
	CHD	VKAS	18.06.2024	
	APPD	CHAND	18.06.2024	
			IF IN DOUBT ASK	
			CUSTOMER'S NAME	
			MAHINDRA & MAHINDRA LTD.	
			MODEL	

ER2310000058	AE	F3	ZINC PLATING CHANGED TO ZINC FLAKE PLATING (MAGNI 565) WITH SILVER GRAY	PRP	NVC	DS	22-07-2024
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	AA		SEAT BELT ASSY., ALR TYPE REPLACED WITH SEAT BELT ASSY., LAP TYPE. LIST OF REPLACEABLE PARTS TABLE DELETED AND NOTE ADDED. NOTES REVISED.	LJ	LJ	SS	13-06-2014
ER.NO.	LET	LOC	REVISIONS	DSNR	OKR	APPR.	DATE

<SC> :SIGNIFICANT CHARACTERISTICS ▽:CRITICAL CHARACTERISTICS

BREAK SHARP CORNERS MAY BE EITHER A CHAMFER
OR A RADIUS FROM 0.2 mm MIN. TO 1.0 mm MAX.

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